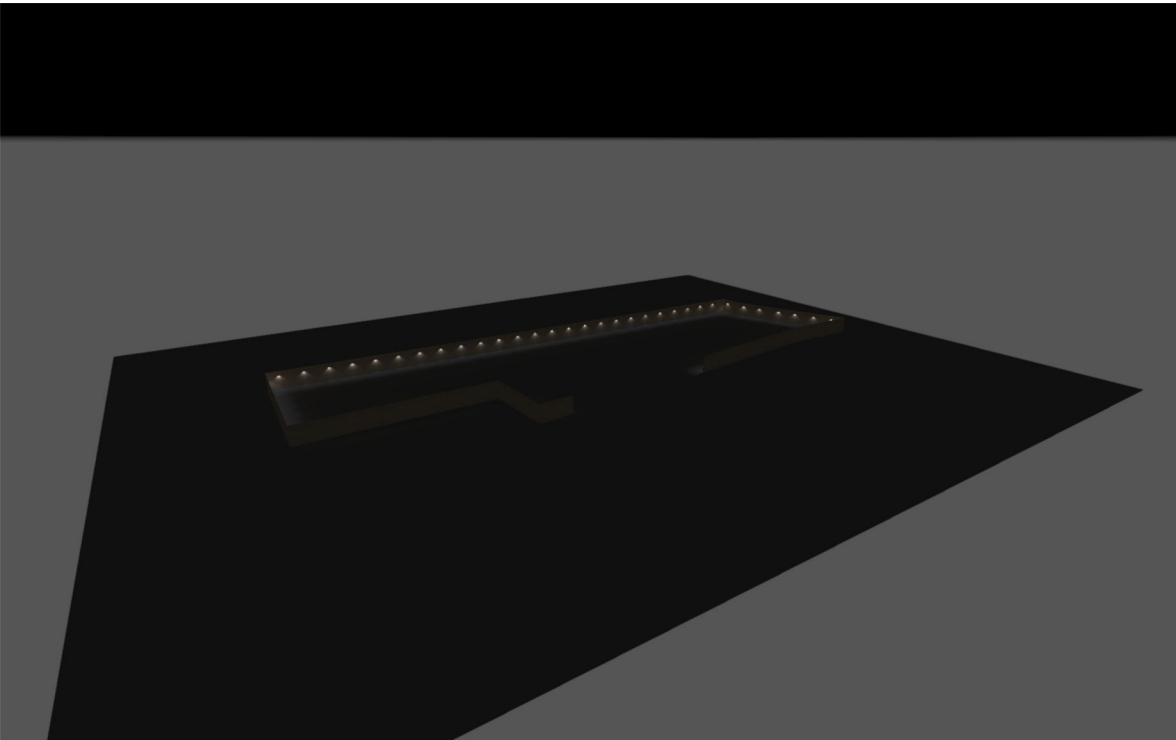




Broadway Farm Site D - Indicative Lighting Calculations

This document must be read alongside the following documents:
3850-DFL-ELG-XX-TN-EO-13003 - Lighting Strategy

Indicative Lighting Calculations have been conducted based on the Lighting Strategy detailed within the document 3850-DFL-ELG-XX-TN-EO-13003.

The Indicative Lighting Calculations use the installation method shown in Figure 3 of 3850-DFL-ELG-XX-TN-EO-13003.

All calculations have been conducted using a maintenance factor of 1, thus representing light output at the start of luminaire life.

Reflection has been included within the calculations:

1. Hard Standing Surface Reflectance = 20%
2. Solid Fence Reflectance: 50%



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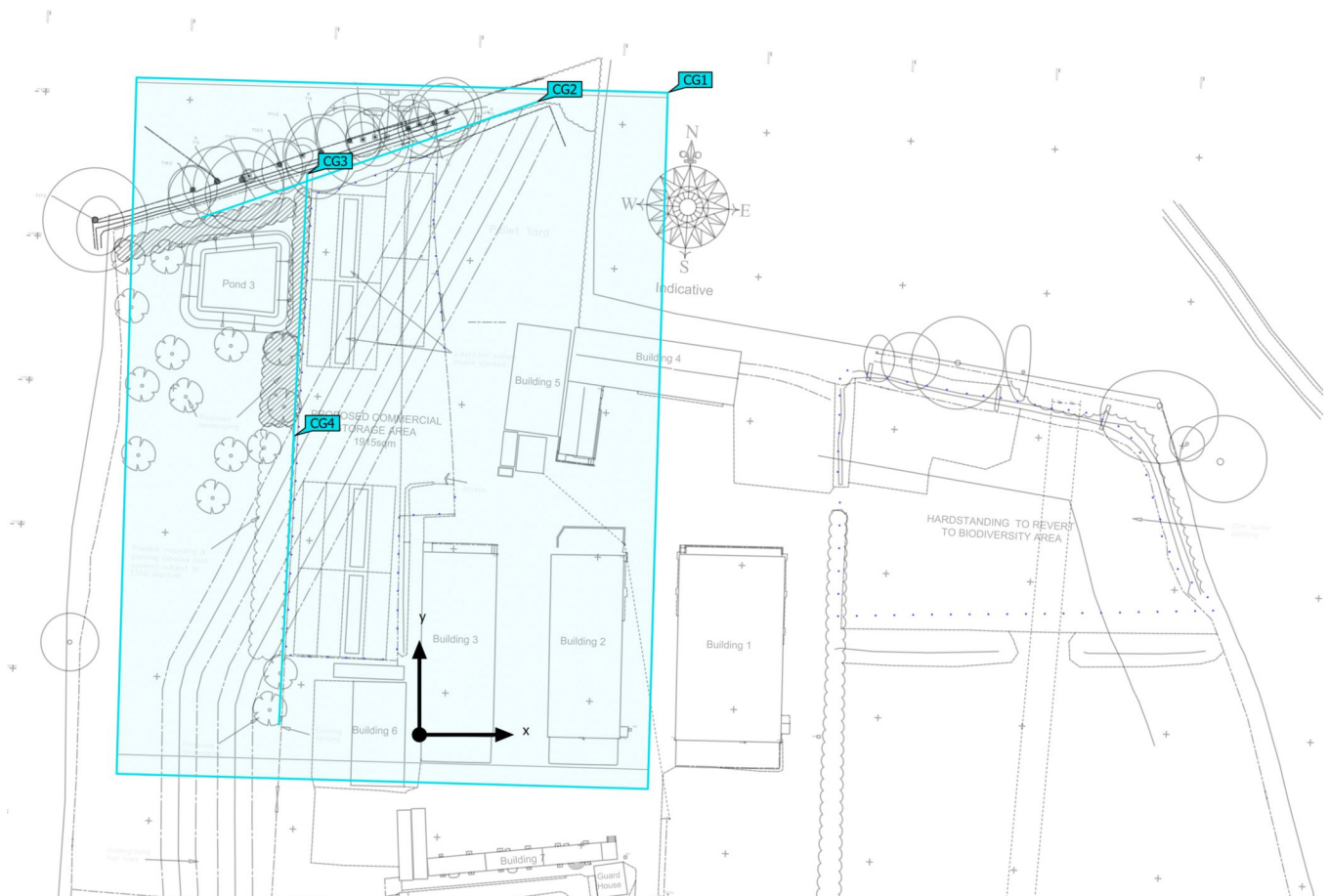
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Site 1 (Light scene 1)

Calculation objects



Site 1 (Light scene 1)

Calculation objects

Calculation surfaces

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Horizontal Light Spill Perpendicular illuminance Height: 0.000 m	0.20 lx	0.00 lx	13.7 lx	0.00	0.00	CG1
North Edge of Woodland Perpendicular illuminance Height: 8.000 m	0.067 lx	0.000 lx	0.69 lx	0.00	0.00	CG2
West Edge of Woodland 001 Perpendicular illuminance Height: 8.000 m	0.12 lx	0.008 lx	0.90 lx	0.067	0.009	CG3
West Edge of Woodland 002 Perpendicular illuminance Height: 8.000 m	0.12 lx	0.001 lx	0.65 lx	0.008	0.002	CG4

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

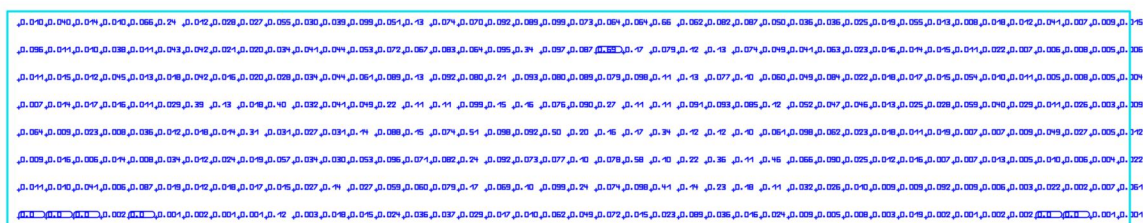
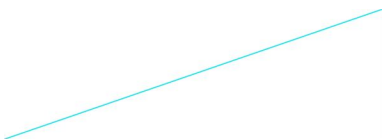
Horizontal Light Spill



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
Horizontal Light Spill Perpendicular illuminance Height: 0.000 m	0.20 lx	0.00 lx	13.7 lx	0.00	0.00

5

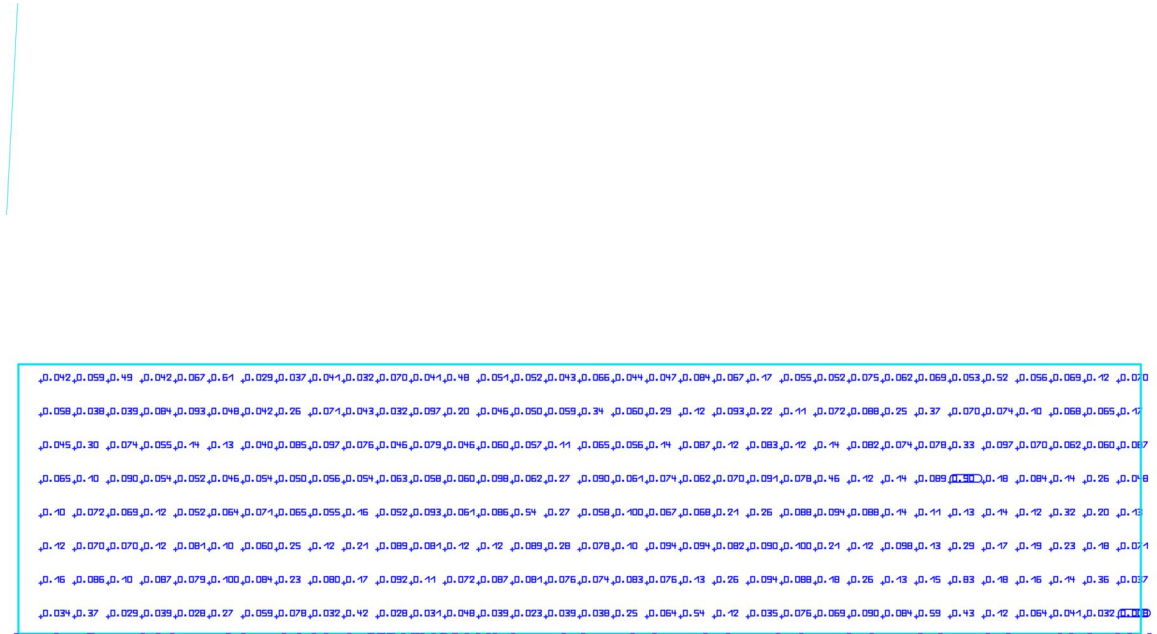
North Edge of Woodland



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
North Edge of Woodland Perpendicular illuminance Height: 8.000 m	0.067 lx	0.000 lx	0.69 lx	0.00	0.00

Site 1 (Light scene 1)

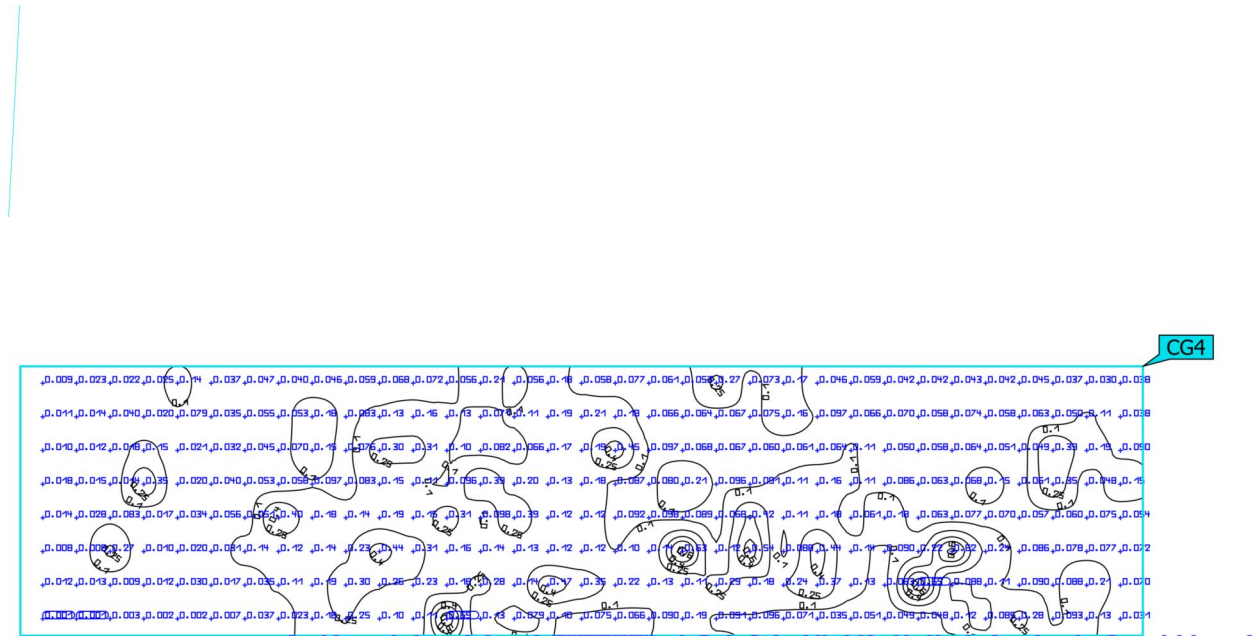
West Edge of Woodland 001



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
West Edge of Woodland 001	0.12 lx	0.008 lx	0.90 lx	0.067	0.009
Perpendicular illuminance					
Height: 8.000 m					

Site 1 (Light scene 1)

West Edge of Woodland 002



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
West Edge of Woodland 002 Perpendicular illuminance Height: 8.000 m	0.12 lx	0.001 lx	0.65 lx	0.008	0.002	CG4

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))